Power Source Technology for the Future



DIESEL GENERATING SETS SOUNDPROOF TYPE (2-POLE) (SINGLE PHASE TYPE · THREE PHASE TYPE)



Compact & Lightweigh Diesel Generating Sets







TLG-13LSY

Denyo Co., Ltd.

GENERATOR

TLG SERIES:Soundproof Diesel Engine Generators

TLG SERIES: DENYO'S newly developed technology has been utilized with environmental considerations.

The TLG series lineup has three phase and single phase models. Products in this series are equipped with a two pole alternator and can be utilized any application.

Incorporating a revolutionary compact design, using advanced "Know-How", it improves in operation, performance characteristics, and maintainability.

The TLG Series illustrates that DENYO is keeping its commitment to develop new technology for tomorrow's power needs.



Improvements in Operation and Maintainability

Newly Developed, High-Performance Generator

With the TLG Series, the wave distortion is minimized when thyristors, inverter controls, computers, and X-ray machines are used. A dynamic start feature improves motor loads. All models are supported to start easily regardless of load. Also using a high-efficiency Automatic Voltage Regulator (AVR) enables few voltage variations. The voltage regulation (Full load to No load) is within $\pm 1.0\%$ for single phase models and within $\pm 1.5\%$ for three phase models.

Automatic Fuel Air Extractor

Air trapped in the fuel system can be troublesome. However, with the TLG Series, fuel air extraction is automatically performed by simply operating the starter switch, without using tools or devices. There is no need to soil the machine's interior or the operator' s hands. And the outflow of fuel to the machine's exterior is prevented.

Eco-Friendly / Eco-Conscious Series(Models)

Extremely Quiet Operation: 68dB(A) or less

This high-speed system operates at low noise levels that can be used in residential areas and will not disturb your neighbors. This has been achieved by using highly effective soundinsulating materials and a unique duct construction, which is a part of the advanced cooling system developed by Denyo.

Use of Clean Engines

These engines using a PCV (Purge Control Valve) system. Therefore, these engines do not discharge blow-by gas to the outside, which keeps the interior of the machine clean.

Prolonged Operating Periods

Using fuel efficient engines, in conjunction with the high-efficiency alternator, means fuel costs are reduced and enables the TLG Series to be operated continuously for periods between 9 and 13 hours.

One-Sided Maintenance

The TLG Series are designed that daily maintenance can be done by accessing only one side of the machine. In addition, the radiator can be easily cleaned by removing its cover.



Additional Features 50Hz / 60Hz Operation

You can operate the TLG Series at both 50Hz and 60Hz by simply adjusting the engine speed using the throttle control knob on the control panel.

Compact Design

The compact and stackable design of the TLG Series facilitates the most effective use of storage space. All the machines are equipped with a balanced, centered lifting eye (hook) to further enhance generator's portability.

Emergency Shut-Down Devices

To protect the generator from malfunctions, a warning lamp and a built in emergency system are standard to detect the low oil pressure, high water temperature, and failure of charging. If these abnormalities are detected, the warning lamp will light up and the engine will come to an emergency stop. There is also a circuit breaker to shutdown immediately in the case of an AC overload.

REVOLUTION





- ①Circuit Breaker (Output Terminals)
- ②Frequency Meter
- 3AC Ammeter
- ④AC Voltmeter
- SWarning Light
- (OilPressure,WaterTemperature,Charge)
- 6Hour Meter
- ⑦Starter Switch
- SVoltage Regulater
- Single-phase Output Terminals
- 10 Earth Leakage Relay

- THREE PHASE TYPE -

- ①Circuit Breaker(Three Phase Output)
 ②Frequency Meter
 ③AC Ammeter
 ④AC Voltmeter
 ⑤Engine Monitor
 ⑥Starter Switch
 ⑦Voltage Regulater
 ⑧Earth Leakage Relay
 ⑨Adjustable Speed Lever
 ⑩Adjustable Frequency Screw
 ⑪Ground Terminal(For Bonnet)
- ⁽¹²⁾Three Phase Output Terminals

Options

Earth Leakage Relay

To prevent electric shock, it is recommended that these generators are equipped with leakage detectors and a relay circuit breaker.



Automatic Fuel Replenishment Device

When the level in the unit tank drops after an extended period of operation, a level sensor detects this and an electric pump is operated to automatically replenish fuel in the unit tank from a separate tank.

Salt Corrosion Resistant Specifications

Salt Corrosion ResisThese specifications are designed for when the unit will be used on the coast or on the ocean, and include treatment to prevent insulation resistance from dropping, and corrosion resistant treatment of the parts.

Trailer & Caster

• 4-Wheel Caster

2-Wheel Trailer



Other Options

Keyed rear door





 Mounting of muffler flange(Upward)



SPECIFICATIONS

MODEL	SINGLE PHASE TYPE							
	TLG-	6LSX	TLG-15LSX					
Alternator								
Frequency (Hz)	50	60	50	60				
Output (kVA)	5.0	6.0	13.0	15.0				
Voltage (V)	2-Wire 50Hz:100~120 or 200~240 60Hz:100~120 or 200~240 or 3-Wire 50Hz:100/200 ~120/240 60Hz:100/200 ~120/240							
Rotating Speed (min ⁻¹)	3000	3600	3000	3600				
Power Factor	1.0							
No. of Phase	Single Phase, 2-Wire or Single Phase, 3-Wire							
No. of Poles	2							
Excitation	Brushless(with AVR)							
Insulation	Class F							
Diesel Engine								
Model	Kubota Z	482-K3A	Yanmar 3-3TNV76G					
Туре	4-cycle,Water-cooled							
No. of Cylinders-Bore × Stroke (mm)	2-67	7×68	3-76×82					
Displacement (L)	0.4	179	1.115					
Rated Output (kW)	6.8	8.0	15.8	18.9				
Battery × Quantity	12-3	55×1						
Fuel	ASTM No.2 Diesel Fuel, or Equivalent							
Fuel Tank Capacity (L)	2	6	51					
Fuel Consumption (L/h)	1.7	2.1	3.9	4.9				
Sound Levels 7mdB (A)	63	64	67	68				
Dimensions,Weight								
Length (mm)	12	20	1400					
Width (mm)	6	10	690					
Height (mm)	72	20	930					
Dry Weight (kg)	20	60	440					

Rated Output applies to operating under standard conditions as per JIS B8014.
3-wire type is available as option.
Fuel consumption is based on operation at 75% load.
Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.









SPECIFICATIONS

MODEL	THREE PHASE TYPE											
	TLG-7	.5LSK	TLG-1	OLSK	TLG-1	3LSY	TLG-1	8LSY				
Alternator												
Frequency (Hz)	50	60	50	60	50	60	50	60				
Output (kVA)	6.5	7.5	8.0	10.0	10.5	13.0	15.0	18.0				
Voltage (V)	50Hz:190 ~ 240 (380 ~ 480) 60Hz:190 ~ 240 (380 ~ 480)											
Rotating Speed (min ⁻¹)	3000	3600	3000	3600	3000	3600	3000	3600				
Power Factor	0.8(Lagging)											
No. of Phase	Three Phase,4-Wire											
No. of Poles	2											
Excitation	Brushless(with AVR)											
Insulation	Class F											
Diesel Engine												
Model	Kubota Z	2482-K3A	Kubota Z	Kubota Z602-K3A Yanmar 3TNV70-F		STNV70-F	Yanmar 3-3TNV76G					
Туре		4-cycle,Water-cooled										
No. of Cylinders-Bore × Stroke (mm)	2-67×68		2-72×73.6		3-70×74		3-76×82					
Displacement (L)	0.479		0.599		0.854		1.115					
Rated Output (kW)	6.8	8.0	8.9	9.9	12.6	15.4	15.8	18.9				
Battery × Quantity	12-38×1 12-46×1			12-55×1 12-55×1								
Fuel	ASTM No.2 Diesel Fuel, or Equivalent											
Fuel Tank Capacity (L)	26			51								
Fuel Consumption (L/h)	1.7	2.1	2.0	2.6	2.8	3.5	3.8	4.7				
Sound Levels 7mdB (A)	61	63	63	64	64	67	67	67				
Dimensions,Weight												
Length (mm)	1220		1220		1400		1400					
Width (mm)	610		680		690		690					
Height (mm)	720		720		930		930					
Dry Weight (kg)	260		289		406		440					

* ()indicates option
Rated Output applies to operating under standard conditions as per JIS B8014. .
Fuel consumption is based on operation at 75% load.
Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.

- Three phase type -



TLG-7.5LSK







TLG-18LSY



ISO 9001:2015 ISO 14001:2015 Certified



Colors of products would be different from printed ones of catalogues. The Specifications given herein are subject to change without notice.



The Denyo trademark is widely recognized as a brand, and is a registered trademark in 93 countries and 8 regions.

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